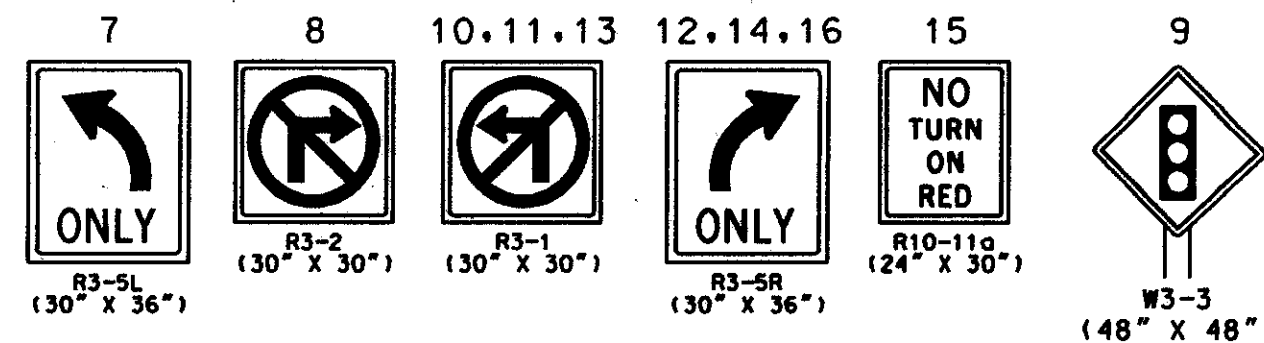


RAMP E-1 IS ASSUMED TO RUN  
IN AN EAST-WEST DIRECTION

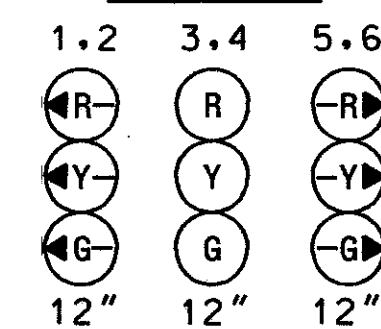
#### SPECIAL NOTE

CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO  
AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION. CONDUIT  
SHALL BE INSTALLED PRIOR TO BEGINNING ROADWAY CONSTRUCTION.

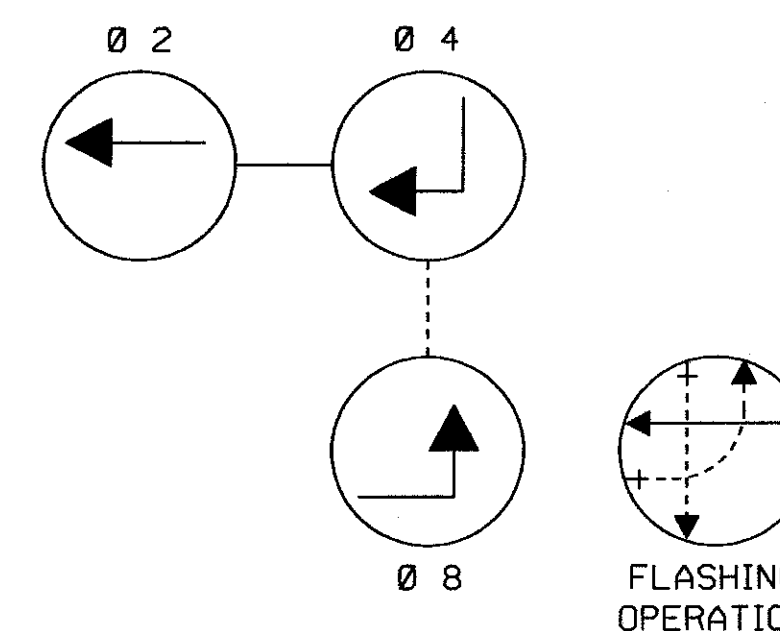
#### SIGNS



#### SIGNAL HEADS



#### NEMA PHASING



#### PHASING NOTES:

- PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

MATCH LINE AA - SEE SHEET TSP-1

#### GENERAL NOTES

- THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN  
NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE  
SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
- THE CONTRACTOR SHALL NOT CUT MAST ARMS AS INDICATED ON PLANS UNTIL MAST ARM  
POLE LOCATION IS FINALIZED.
- VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- INSTALL LOOP DETECTORS AND CONDUIT PRIOR TO THE INSTALLATION OF PAVEMENT  
MARKINGS. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS.
- ALL FOUNDATIONS AND HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY  
AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS  
UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE  
FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE  
TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER  
IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

#### LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	—A—
ELECTRICAL	—E—
TELEPHONE	—T—
GAS	—G—
SEWER	—SS—
STORM DRAIN	—SD—
WATER	—W—
CABLE TV	—TV—

**WR&A**  
Whitman, Reardon  
and Associates, LLP  
2315 Saint Paul Street  
Baltimore, Maryland 21218  
(410) 235-3450

FUTURE ENTRANCE  
BY OTHERS

RIGHT-OF-  
WAY LINE

MATCH LINE BB - THIS SHEET

#### CONSTRUCTION DETAILS

- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./60 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS  
AND 15 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE.  
(INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT  
BENDS IN POLE BASE.)
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT. (CUT TO 40 FT.)/70 FT. MAST ARMS, TRAFFIC SIGNAL  
HEADS, SIGNS AND 15 FT. STREET LIGHTING BRACKET WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR  
LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL  
CONDUIT BENDS IN POLE BASE.)
- INSTALL NEMA SIZE #6 BASE MOUNTED CABINET AND CONTROLLER, 60A NONFUSED DISCONNECT  
SWITCH MOUNTED ON REAR OF BASE MOUNTED CABINET WITH CONCRETE PAD. (INSTALL 2-2 IN.  
AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN  
CABINET BASE.)
- INSTALL HANDHOLE.
- INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING  
(STOP LINE).
- INSTALL 6 FT. x 20 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN.  
FLEXIBLE TUBING.
- INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
- INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) WITH PROPOSED  
INTERCONNECT CABLE.
- INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
- INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT WITH TWO 1-CONDUCTOR  
(NO. 4 A.W.G.) ELECTRICAL CABLES AND ONE STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE AND 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE  
ELECTRICAL CONDUIT WITH PROPOSED INTERCONNECT CABLE IN COMMON TRENCH.
- INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) WITH TWO  
1-CONDUCTOR (NO. 4 A.W.G.) ELECTRICAL CABLES AND ONE STRANDED BARE COPPER GROUND  
WIRE (NO. 6 A.W.G.) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
- CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
- INSTALL #3-3 "SIGNAL AHEAD" SIGN (48 IN. x 48 IN.) ON ONE 4 IN. x 6 IN. TREATED WOOD POST  
APPROXIMATELY 400 FT. IN ADVANCE OF THE INTERSECTION ON RAMP E-1.
- INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN.  
FLEXIBLE TUBING.

TSP-2

REVISIONS	APPROVALS
	<i>Whitman Reardon</i> 3/26/01 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>John J. 4/1/01</i> ASST. TRAFFIC ENGINEERING DESIGN DIVISION
	<i>John J. 4/1/01</i> CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	<i>John J. 4/1/01</i> DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNALIZATION PLAN  
I-295 RAMP E-1 AND PRIVATE ENTRANCE

DRAWN BY: S.BLOSS  
CHECKED BY: N. LEARY  
SCALE: 1" = 20'  
DATE: 3/20/01

F.A.P. NO.  
S.H.A. NO.  
COUNTY:  
LOC. MILE:

PG3465178  
PRINCE GEORGES

TS NO.  
4081  
T.J.M.S. NO.  
E484

SHEET NO.  
2 OF

m:\3108\contract\_epr\sg02efr.dgn